

Release notes for ENDF/B Development n-026_Fe_058
evaluation

ENDF
B-VII.dev

April 26, 2017

- checkr Errors:

1. A variable is outside the allowed ENDF range
MAT=2637, MF= 2, MT=151 (0): Variable range

```

ERROR(S) FOUND IN MAT=2637, MF= 2, MT=151
NLS =      5 OUT OF RANGE      1 -      4      RECORD NUMBER      1269

```

- psyche Warnings:

1. Gamma width not in agreement with PSYCHE's expectations
FILE 2 / SECTION 151 / ISOTOPE MASS = 58. L = 1 / AT RESONANCE ENERGY 1.31260E+05 EV. THE GAMMA WIDTH 1.80620E+00 DEVIATES TOO MUCH FROM THE AVERAGE 2.94503E-01 (0): Gamma width

```

FILE 2
SECTION 151
ISOTOPE MASS = 58. L = 1
AT RESONANCE ENERGY 1.31260E+05 EV. THE GAMMA WIDTH 1.80620E+00 DEVIATES TOO MUCH FROM THE AV

```

- psyche Errors:

1. A probability distribution is negative. This is bad.
FILE 6 / SECTION 5 / DISTRIBUTION IS NEGATIVE SEQUENCE NUMBER 914 / FROM -9.9988E-01 TO -1.0000E+00 NEGATIVE PROBABILITY IS -8.9407E-08 (0): Neg. prob.

```

FILE 6
SECTION 5
DISTRIBUTION IS NEGATIVE                      SEQUENCE NUMBER 914
FROM -9.9988E-01 TO -1.0000E+00 NEGATIVE PROBABILITY IS -8.9407E-08

```

2. A probability distribution is negative. This is bad.
FILE 6 / SECTION 5 / DISTRIBUTION IS NEGATIVE SEQUENCE NUMBER 914 / FROM -1.0000E+00 TO -1.0000E+00 NEGATIVE PROBABILITY IS -0.0000E+00 (0): Neg. prob.

```

FILE 6
SECTION 5
DISTRIBUTION IS NEGATIVE                      SEQUENCE NUMBER 914
FROM -1.0000E+00 TO -1.0000E+00 NEGATIVE PROBABILITY IS -0.0000E+00
FROM -1.0000E+00 TO -1.0000E+00 NEGATIVE PROBABILITY IS -0.0000E+00
... [6 more lines]

```

3. A probability distribution is negative. This is bad.
FILE 6 / SECTION 5 / DISTRIBUTION IS NEGATIVE SEQUENCE NUMBER 232 (0): Neg. prob.

```

FILE 6
SECTION 5
DISTRIBUTION IS NEGATIVE                      SEQUENCE NUMBER 232
ENERGY BALANCE SUMMARY: Q = -7.64600E+06      ENERGY BALANCE SUMMARY: Q = -7.64600E+06

```

4. A probability distribution is negative. This is bad.
FILE 6 / SECTION 5 / DISTRIBUTION IS NEGATIVE SEQUENCE NUMBER 232
/ ENERGY BALANCE SUMMARY: Q = -7.64600E+06 (0): Neg. prob.

```
FILE 6
SECTION 5
DISTRIBUTION IS NEGATIVE                      SEQUENCE NUMBER 232
ENERGY BALANCE SUMMARY: Q = -7.64600E+06
```

5. A probability distribution is negative. This is bad.
FILE 6 / SECTION 5 / DISTRIBUTION IS NEGATIVE SEQUENCE NUMBER 437 /
FROM -9.9876E-01 TO -1.0000E+00 NEGATIVE PROBABILITY IS 1.1921E-07 (0):
Neg. prob.

```
FILE 6
SECTION 5
DISTRIBUTION IS NEGATIVE                      SEQUENCE NUMBER 437
FROM -9.9876E-01 TO -1.0000E+00 NEGATIVE PROBABILITY IS 1.1921E-07
```

6. A probability distribution is negative. This is bad.
FILE 6 / SECTION 5 / DISTRIBUTION IS NEGATIVE SEQUENCE NUMBER 1002
/ FROM -9.6875E-01 TO -1.0000E+00 NEGATIVE PROBABILITY IS -2.3842E-07
(0): Neg. prob.

```
FILE 6
SECTION 5
DISTRIBUTION IS NEGATIVE                      SEQUENCE NUMBER 1002
FROM -9.6875E-01 TO -1.0000E+00 NEGATIVE PROBABILITY IS -2.3842E-07
```

7. A probability distribution is negative. This is bad.
FILE 6 / SECTION 5 / DISTRIBUTION IS NEGATIVE SEQUENCE NUMBER 1002
/ FROM -1.0000E+00 TO -1.0000E+00 NEGATIVE PROBABILITY IS -0.0000E+00
(0): Neg. prob.

```
FILE 6
SECTION 5
DISTRIBUTION IS NEGATIVE                      SEQUENCE NUMBER 1002
FROM -1.0000E+00 TO -1.0000E+00 NEGATIVE PROBABILITY IS -0.0000E+00
FROM -1.0000E+00 TO -1.0000E+00 NEGATIVE PROBABILITY IS -0.0000E+00
... [18 more lines]
```

8. A probability distribution is negative. This is bad.
FILE 6 / SECTION 5 / DISTRIBUTION IS NEGATIVE SEQUENCE NUMBER 1074
/ FROM -8.7500E-01 TO -1.0000E+00 NEGATIVE PROBABILITY IS 1.9670E-06
(0): Neg. prob.

```
FILE 6
SECTION 5
DISTRIBUTION IS NEGATIVE                      SEQUENCE NUMBER 1074
FROM -8.7500E-01 TO -1.0000E+00 NEGATIVE PROBABILITY IS 1.9670E-06
```

9. A probability distribution is negative. This is bad.
FILE 6 / SECTION 5 / DISTRIBUTION IS NEGATIVE SEQUENCE NUMBER 1074
/ FROM -1.0000E+00 TO -1.0000E+00 NEGATIVE PROBABILITY IS -0.0000E+00
(0): Neg. prob.

```

FILE 6
SECTION 5
DISTRIBUTION IS NEGATIVE                      SEQUENCE NUMBER 1074
FROM -1.0000E+00 TO -1.0000E+00 NEGATIVE PROBABILITY IS -0.0000E+00
FROM -1.0000E+00 TO -1.0000E+00 NEGATIVE PROBABILITY IS -0.0000E+00
... [21 more lines]

```

10. A probability distribution is negative. This is bad.
FILE 6 / SECTION 5 / DISTRIBUTION IS NEGATIVE SEQUENCE NUMBER 1074
(0): Neg. prob.

```

FILE 6
SECTION 5
DISTRIBUTION IS NEGATIVE                      SEQUENCE NUMBER 1074
ENERGY BALANCE SUMMARY: Q = -1.00440E+07      ENERGY BALANCE SUMMARY: Q = -1.00440E+07

```

11. A probability distribution is negative. This is bad.
FILE 6 / SECTION 5 / DISTRIBUTION IS NEGATIVE SEQUENCE NUMBER 1074
/ ENERGY BALANCE SUMMARY: Q = -1.00440E+07 (0): Neg. prob.

```

FILE 6
SECTION 5
DISTRIBUTION IS NEGATIVE                      SEQUENCE NUMBER 1074
ENERGY BALANCE SUMMARY: Q = -1.00440E+07

```

12. A probability distribution is negative. This is bad.
FILE 6 / SECTION 5 / DISTRIBUTION IS NEGATIVE SEQUENCE NUMBER 362
(0): Neg. prob.

```

FILE 6
SECTION 5
DISTRIBUTION IS NEGATIVE                      SEQUENCE NUMBER 362
ENERGY BALANCE SUMMARY: Q = -1.76900E+07      ENERGY BALANCE SUMMARY: Q = -1.76900E+07
ENERGY BALANCE SUMMARY: Q = -2.88870E+07      ENERGY BALANCE SUMMARY: Q = -2.88870E+07

```

13. A probability distribution is negative. This is bad.
FILE 6 / SECTION 5 / DISTRIBUTION IS NEGATIVE SEQUENCE NUMBER 362
/ ENERGY BALANCE SUMMARY: Q = -2.88870E+07 (0): Neg. prob.

```

FILE 6
SECTION 5
DISTRIBUTION IS NEGATIVE                      SEQUENCE NUMBER 362
ENERGY BALANCE SUMMARY: Q = -2.88870E+07

```

14. A probability distribution is negative. This is bad.
FILE 6 / SECTION 5 / DISTRIBUTION IS NEGATIVE SEQUENCE NUMBER 450 /
FROM -9.9876E-01 TO -1.0000E+00 NEGATIVE PROBABILITY IS 1.1921E-07 (0):
Neg. prob.

```

FILE 6
SECTION 5
DISTRIBUTION IS NEGATIVE                      SEQUENCE NUMBER 450
FROM -9.9876E-01 TO -1.0000E+00 NEGATIVE PROBABILITY IS 1.1921E-07

```

15. A probability distribution is negative. This is bad.
FILE 6 / SECTION 5 / DISTRIBUTION IS NEGATIVE SEQUENCE NUMBER 825
/ FROM -9.9994E-01 TO -1.0000E+00 NEGATIVE PROBABILITY IS -0.0000E+00

(0): Neg. prob.

```
FILE 6
SECTION 5
DISTRIBUTION IS NEGATIVE                      SEQUENCE NUMBER 825
FROM -9.9994E-01 TO -1.0000E+00 NEGATIVE PROBABILITY IS -0.0000E+00
```

16. A probability distribution is negative. This is bad.
FILE 6 / SECTION 5 / DISTRIBUTION IS NEGATIVE SEQUENCE NUMBER 825
/ FROM -1.0000E+00 TO -1.0000E+00 NEGATIVE PROBABILITY IS -0.0000E+00
(0): Neg. prob.

```
FILE 6
SECTION 5
DISTRIBUTION IS NEGATIVE                      SEQUENCE NUMBER 825
FROM -1.0000E+00 TO -1.0000E+00 NEGATIVE PROBABILITY IS -0.0000E+00
FROM -1.0000E+00 TO -1.0000E+00 NEGATIVE PROBABILITY IS -0.0000E+00
... [6 more lines]
```

17. A probability distribution is negative. This is bad.
FILE 6 / SECTION 5 / DISTRIBUTION IS NEGATIVE SEQUENCE NUMBER 970
/ FROM -9.9219E-01 TO -1.0000E+00 NEGATIVE PROBABILITY IS -0.0000E+00
(0): Neg. prob.

```
FILE 6
SECTION 5
DISTRIBUTION IS NEGATIVE                      SEQUENCE NUMBER 970
FROM -9.9219E-01 TO -1.0000E+00 NEGATIVE PROBABILITY IS -0.0000E+00
```

18. A probability distribution is negative. This is bad.
FILE 6 / SECTION 5 / DISTRIBUTION IS NEGATIVE SEQUENCE NUMBER 970
/ FROM -1.0000E+00 TO -1.0000E+00 NEGATIVE PROBABILITY IS -0.0000E+00
(0): Neg. prob.

```
FILE 6
SECTION 5
DISTRIBUTION IS NEGATIVE                      SEQUENCE NUMBER 970
FROM -1.0000E+00 TO -1.0000E+00 NEGATIVE PROBABILITY IS -0.0000E+00
FROM -1.0000E+00 TO -1.0000E+00 NEGATIVE PROBABILITY IS -0.0000E+00
```

19. A probability distribution is negative. This is bad.
FILE 6 / SECTION 5 / DISTRIBUTION IS NEGATIVE SEQUENCE NUMBER 980
/ FROM -9.6875E-01 TO -1.0000E+00 NEGATIVE PROBABILITY IS -0.0000E+00
(0): Neg. prob.

```
FILE 6
SECTION 5
DISTRIBUTION IS NEGATIVE                      SEQUENCE NUMBER 980
FROM -9.6875E-01 TO -1.0000E+00 NEGATIVE PROBABILITY IS -0.0000E+00
```

20. A probability distribution is negative. This is bad.
FILE 6 / SECTION 5 / DISTRIBUTION IS NEGATIVE SEQUENCE NUMBER 980
/ FROM -1.0000E+00 TO -1.0000E+00 NEGATIVE PROBABILITY IS -0.0000E+00
(0): Neg. prob.

```

FILE 6
SECTION 5
DISTRIBUTION IS NEGATIVE                      SEQUENCE NUMBER 980
FROM -1.0000E+00 TO -1.0000E+00 NEGATIVE PROBABILITY IS -0.0000E+00
FROM -1.0000E+00 TO -1.0000E+00 NEGATIVE PROBABILITY IS -0.0000E+00
... [6 more lines]

```

21. A probability distribution is negative. This is bad.
FILE 6 / SECTION 5 / DISTRIBUTION IS NEGATIVE SEQUENCE NUMBER 1000
/ FROM -9.9219E-01 TO -1.0000E+00 NEGATIVE PROBABILITY IS -5.9605E-08
(0): Neg. prob.

```

FILE 6
SECTION 5
DISTRIBUTION IS NEGATIVE                      SEQUENCE NUMBER 1000
FROM -9.9219E-01 TO -1.0000E+00 NEGATIVE PROBABILITY IS -5.9605E-08

```

22. A probability distribution is negative. This is bad.
FILE 6 / SECTION 5 / DISTRIBUTION IS NEGATIVE SEQUENCE NUMBER 1000
/ FROM -1.0000E+00 TO -1.0000E+00 NEGATIVE PROBABILITY IS -0.0000E+00
(0): Neg. prob.

```

FILE 6
SECTION 5
DISTRIBUTION IS NEGATIVE                      SEQUENCE NUMBER 1000
FROM -1.0000E+00 TO -1.0000E+00 NEGATIVE PROBABILITY IS -0.0000E+00
FROM -1.0000E+00 TO -1.0000E+00 NEGATIVE PROBABILITY IS -0.0000E+00
... [4 more lines]

```

23. A probability distribution is negative. This is bad.
FILE 6 / SECTION 5 / DISTRIBUTION IS NEGATIVE SEQUENCE NUMBER 1040
/ FROM -8.7500E-01 TO -1.0000E+00 NEGATIVE PROBABILITY IS 4.7684E-07
(0): Neg. prob.

```

FILE 6
SECTION 5
DISTRIBUTION IS NEGATIVE                      SEQUENCE NUMBER 1040
FROM -8.7500E-01 TO -1.0000E+00 NEGATIVE PROBABILITY IS 4.7684E-07

```

24. A probability distribution is negative. This is bad.
FILE 6 / SECTION 5 / DISTRIBUTION IS NEGATIVE SEQUENCE NUMBER 1040
/ FROM -1.0000E+00 TO -1.0000E+00 NEGATIVE PROBABILITY IS -0.0000E+00
(0): Neg. prob.

```

FILE 6
SECTION 5
DISTRIBUTION IS NEGATIVE                      SEQUENCE NUMBER 1040
FROM -1.0000E+00 TO -1.0000E+00 NEGATIVE PROBABILITY IS -0.0000E+00
FROM -1.0000E+00 TO -1.0000E+00 NEGATIVE PROBABILITY IS -0.0000E+00

```

25. A probability distribution is negative. This is bad.
FILE 6 / SECTION 5 / DISTRIBUTION IS NEGATIVE SEQUENCE NUMBER 1060
/ FROM -9.9219E-01 TO -1.0000E+00 NEGATIVE PROBABILITY IS -2.9802E-08
(0): Neg. prob.

- FILE 6
SECTION 5
DISTRIBUTION IS NEGATIVE SEQUENCE NUMBER 1060
FROM -9.9219E-01 TO -1.0000E+00 NEGATIVE PROBABILITY IS -2.9802E-08
26. A probability distribution is negative. This is bad.
*FILE 6 / SECTION 5 / DISTRIBUTION IS NEGATIVE SEQUENCE NUMBER 1060
/ FROM -1.0000E+00 TO -1.0000E+00 NEGATIVE PROBABILITY IS -0.0000E+00
(0): Neg. prob.*
- FILE 6
SECTION 5
DISTRIBUTION IS NEGATIVE SEQUENCE NUMBER 1060
FROM -1.0000E+00 TO -1.0000E+00 NEGATIVE PROBABILITY IS -0.0000E+00
FROM -1.0000E+00 TO -1.0000E+00 NEGATIVE PROBABILITY IS -0.0000E+00
... [5 more lines]
27. A probability distribution is negative. This is bad.
*FILE 6 / SECTION 5 / DISTRIBUTION IS NEGATIVE SEQUENCE NUMBER 1060
(0): Neg. prob.*
- FILE 6
SECTION 5
DISTRIBUTION IS NEGATIVE SEQUENCE NUMBER 1060
ENERGY BALANCE SUMMARY: Q = 0.00000E+00 ENERGY BALANCE SUMMARY: Q = 0.00000E+00
ENERGY BALANCE SUMMARY: Q = 6.58043E+06 ENERGY BALANCE SUMMARY: Q = 6.58043E+06
28. A probability distribution is negative. This is bad.
*FILE 6 / SECTION 5 / DISTRIBUTION IS NEGATIVE SEQUENCE NUMBER 1060
/ ENERGY BALANCE SUMMARY: Q = 6.58043E+06 (0): Neg. prob.*
- FILE 6
SECTION 5
DISTRIBUTION IS NEGATIVE SEQUENCE NUMBER 1060
ENERGY BALANCE SUMMARY: Q = 6.58043E+06
29. A probability distribution is negative. This is bad.
*FILE 6 / SECTION 5 / DISTRIBUTION IS NEGATIVE SEQUENCE NUMBER 1002
/ FROM -7.5000E-01 TO -1.0000E+00 NEGATIVE PROBABILITY IS 5.3048E-06
(0): Neg. prob.*
- FILE 6
SECTION 5
DISTRIBUTION IS NEGATIVE SEQUENCE NUMBER 1002
FROM -7.5000E-01 TO -1.0000E+00 NEGATIVE PROBABILITY IS 5.3048E-06
30. A probability distribution is negative. This is bad.
*FILE 6 / SECTION 5 / DISTRIBUTION IS NEGATIVE SEQUENCE NUMBER 971
/ FROM -9.9929E-01 TO -1.0000E+00 NEGATIVE PROBABILITY IS -0.0000E+00
(0): Neg. prob.*
- FILE 6
SECTION 5
DISTRIBUTION IS NEGATIVE SEQUENCE NUMBER 971
FROM -9.9929E-01 TO -1.0000E+00 NEGATIVE PROBABILITY IS -0.0000E+00

31. A probability distribution is negative. This is bad.
FILE 6 / SECTION 5 / DISTRIBUTION IS NEGATIVE SEQUENCE NUMBER 1002
/ FROM -7.5000E-01 TO -1.0000E+00 NEGATIVE PROBABILITY IS 4.1723E-07
(0): Neg. prob.

```
FILE 6
SECTION 5
DISTRIBUTION IS NEGATIVE                      SEQUENCE NUMBER 1002
FROM -7.5000E-01 TO -1.0000E+00 NEGATIVE PROBABILITY IS 4.1723E-07
```

32. A probability distribution is negative. This is bad.
FILE 6 / SECTION 5 / DISTRIBUTION IS NEGATIVE SEQUENCE NUMBER 1012
/ FROM -8.7500E-01 TO -1.0000E+00 NEGATIVE PROBABILITY IS 5.9605E-07
(0): Neg. prob.

```
FILE 6
SECTION 5
DISTRIBUTION IS NEGATIVE                      SEQUENCE NUMBER 1012
FROM -8.7500E-01 TO -1.0000E+00 NEGATIVE PROBABILITY IS 5.9605E-07
```

33. A probability distribution is negative. This is bad.
FILE 6 / SECTION 5 / DISTRIBUTION IS NEGATIVE SEQUENCE NUMBER 1012
/ FROM -1.0000E+00 TO -1.0000E+00 NEGATIVE PROBABILITY IS -0.0000E+00
(0): Neg. prob.

```
FILE 6
SECTION 5
DISTRIBUTION IS NEGATIVE                      SEQUENCE NUMBER 1012
FROM -1.0000E+00 TO -1.0000E+00 NEGATIVE PROBABILITY IS -0.0000E+00
FROM -1.0000E+00 TO -1.0000E+00 NEGATIVE PROBABILITY IS -0.0000E+00
... [8 more lines]
```

34. A probability distribution is negative. This is bad.
FILE 6 / SECTION 5 / DISTRIBUTION IS NEGATIVE SEQUENCE NUMBER 1043
/ FROM -5.0000E-01 TO -1.0000E+00 NEGATIVE PROBABILITY IS -2.3842E-07
(0): Neg. prob.

```
FILE 6
SECTION 5
DISTRIBUTION IS NEGATIVE                      SEQUENCE NUMBER 1043
FROM -5.0000E-01 TO -1.0000E+00 NEGATIVE PROBABILITY IS -2.3842E-07
```

35. A probability distribution is negative. This is bad.
FILE 6 / SECTION 5 / DISTRIBUTION IS NEGATIVE SEQUENCE NUMBER 1043
/ FROM -1.0000E+00 TO -1.0000E+00 NEGATIVE PROBABILITY IS -0.0000E+00
(0): Neg. prob.

```
FILE 6
SECTION 5
DISTRIBUTION IS NEGATIVE                      SEQUENCE NUMBER 1043
FROM -1.0000E+00 TO -1.0000E+00 NEGATIVE PROBABILITY IS -0.0000E+00
FROM -1.0000E+00 TO -1.0000E+00 NEGATIVE PROBABILITY IS -0.0000E+00
... [17 more lines]
```


36. A probability distribution is negative. This is bad.
FILE 6 / SECTION 5 / DISTRIBUTION IS NEGATIVE SEQUENCE NUMBER 1043
(0): Neg. prob.

```
FILE 6
SECTION 5
DISTRIBUTION IS NEGATIVE                      SEQUENCE NUMBER 1043
ENERGY BALANCE SUMMARY: Q = -1.62630E+07      ENERGY BALANCE SUMMARY: Q = -1.62630E+07
```

37. A probability distribution is negative. This is bad.
FILE 6 / SECTION 5 / DISTRIBUTION IS NEGATIVE SEQUENCE NUMBER 1043
/ ENERGY BALANCE SUMMARY: Q = -1.62630E+07 (0): Neg. prob.

```
FILE 6
SECTION 5
DISTRIBUTION IS NEGATIVE                      SEQUENCE NUMBER 1043
ENERGY BALANCE SUMMARY: Q = -1.62630E+07
```

38. A probability distribution is negative. This is bad.
FILE 6 / SECTION 5 / DISTRIBUTION IS NEGATIVE SEQUENCE NUMBER 207
/ FROM -9.9979E-01 TO -1.0000E+00 NEGATIVE PROBABILITY IS -2.9802E-08
(0): Neg. prob.

```
FILE 6
SECTION 5
DISTRIBUTION IS NEGATIVE                      SEQUENCE NUMBER 207
FROM -9.9979E-01 TO -1.0000E+00 NEGATIVE PROBABILITY IS -2.9802E-08
```

39. A probability distribution is negative. This is bad.
FILE 6 / SECTION 5 / DISTRIBUTION IS NEGATIVE SEQUENCE NUMBER 1074
/ FROM -7.5000E-01 TO -1.0000E+00 NEGATIVE PROBABILITY IS 4.5300E-06
(0): Neg. prob.

```
FILE 6
SECTION 5
DISTRIBUTION IS NEGATIVE                      SEQUENCE NUMBER 1074
FROM -7.5000E-01 TO -1.0000E+00 NEGATIVE PROBABILITY IS 4.5300E-06
```

40. A probability distribution is negative. This is bad.
FILE 6 / SECTION 5 / DISTRIBUTION IS NEGATIVE SEQUENCE NUMBER 992
/ FROM -9.9805E-01 TO -1.0000E+00 NEGATIVE PROBABILITY IS -5.9605E-08
(0): Neg. prob.

```
FILE 6
SECTION 5
DISTRIBUTION IS NEGATIVE                      SEQUENCE NUMBER 992
FROM -9.9805E-01 TO -1.0000E+00 NEGATIVE PROBABILITY IS -5.9605E-08
```

41. A probability distribution is negative. This is bad.
FILE 6 / SECTION 5 / DISTRIBUTION IS NEGATIVE SEQUENCE NUMBER 1054
/ FROM -8.7500E-01 TO -1.0000E+00 NEGATIVE PROBABILITY IS 2.0862E-06
(0): Neg. prob.

```
FILE 6
SECTION 5
```

42. A probability distribution is negative. This is bad.
 FILE 6 / SECTION 5 / DISTRIBUTION IS NEGATIVE SEQUENCE NUMBER 1054
 / FROM -1.0000E+00 TO -1.0000E+00 NEGATIVE PROBABILITY IS -0.0000E+00
 (0): Neg. prob.

43. A probability distribution is negative. This is bad.
 FILE 6 / SECTION 5 / DISTRIBUTION IS NEGATIVE SEQUENCE NUMBER 1064
 / FROM -9.6875E-01 TO -1.0000E+00 NEGATIVE PROBABILITY IS 1.7881E-07
 (0): Neg. prob.

44. A probability distribution is negative. This is bad.
 FILE 6 / SECTION 5 / DISTRIBUTION IS NEGATIVE SEQUENCE NUMBER 1064
 / FROM -1.0000E+00 TO -1.0000E+00 NEGATIVE PROBABILITY IS -0.0000E+00
 (0): Neg. prob.

45. A probability distribution is negative. This is bad.
 FILE 6 / SECTION 5 / DISTRIBUTION IS NEGATIVE SEQUENCE NUMBER 971 /
 FROM -9.9695E-01 TO -1.0000E+00 NEGATIVE PROBABILITY IS 1.1921E-07 (0):
 Neg. prob.

46. A probability distribution is negative. This is bad.
 FILE 6 / SECTION 5 / DISTRIBUTION IS NEGATIVE SEQUENCE NUMBER 1023
 / FROM -9.3607E-01 TO -1.0000E+00 NEGATIVE PROBABILITY IS 1.1921E-07
 (0): Neg. prob.

9

47. A probability distribution is negative. This is bad.
FILE 6 / SECTION 5 / DISTRIBUTION IS NEGATIVE SEQUENCE NUMBER 1054
/ FROM -9.3750E-01 TO -1.0000E+00 NEGATIVE PROBABILITY IS 7.7486E-07
(0): Neg. prob.

```
FILE 6
SECTION 5
DISTRIBUTION IS NEGATIVE                      SEQUENCE NUMBER 1054
FROM -9.3750E-01 TO -1.0000E+00 NEGATIVE PROBABILITY IS 7.7486E-07
```

48. A probability distribution is negative. This is bad.
FILE 6 / SECTION 5 / DISTRIBUTION IS NEGATIVE SEQUENCE NUMBER 1074
/ FROM -8.7500E-01 TO -1.0000E+00 NEGATIVE PROBABILITY IS 1.1921E-07
(0): Neg. prob.

```
FILE 6
SECTION 5
DISTRIBUTION IS NEGATIVE                      SEQUENCE NUMBER 1074
FROM -8.7500E-01 TO -1.0000E+00 NEGATIVE PROBABILITY IS 1.1921E-07
```

49. A probability distribution is negative. This is bad.
FILE 6 / SECTION 5 / DISTRIBUTION IS NEGATIVE SEQUENCE NUMBER 1085
/ FROM -8.7500E-01 TO -1.0000E+00 NEGATIVE PROBABILITY IS -3.1590E-06
(0): Neg. prob.

```
FILE 6
SECTION 5
DISTRIBUTION IS NEGATIVE                      SEQUENCE NUMBER 1085
FROM -8.7500E-01 TO -1.0000E+00 NEGATIVE PROBABILITY IS -3.1590E-06
```

50. A probability distribution is negative. This is bad.
FILE 6 / SECTION 5 / DISTRIBUTION IS NEGATIVE SEQUENCE NUMBER 1085
/ FROM -1.0000E+00 TO -1.0000E+00 NEGATIVE PROBABILITY IS -0.0000E+00
(0): Neg. prob.

```
FILE 6
SECTION 5
DISTRIBUTION IS NEGATIVE                      SEQUENCE NUMBER 1085
FROM -1.0000E+00 TO -1.0000E+00 NEGATIVE PROBABILITY IS -0.0000E+00
FROM -1.0000E+00 TO -1.0000E+00 NEGATIVE PROBABILITY IS -0.0000E+00
... [16 more lines]
```

51. A probability distribution is negative. This is bad.
FILE 6 / SECTION 5 / DISTRIBUTION IS NEGATIVE SEQUENCE NUMBER 1095
/ FROM -9.6875E-01 TO -1.0000E+00 NEGATIVE PROBABILITY IS -0.0000E+00
(0): Neg. prob.

```
FILE 6
SECTION 5
DISTRIBUTION IS NEGATIVE                      SEQUENCE NUMBER 1095
FROM -9.6875E-01 TO -1.0000E+00 NEGATIVE PROBABILITY IS -0.0000E+00
```

52. A probability distribution is negative. This is bad.
FILE 6 / SECTION 5 / DISTRIBUTION IS NEGATIVE SEQUENCE NUMBER 1095
/ FROM -1.0000E+00 TO -1.0000E+00 NEGATIVE PROBABILITY IS -0.0000E+00
(0): Neg. prob.

```

FILE 6
SECTION 5
DISTRIBUTION IS NEGATIVE                      SEQUENCE NUMBER 1095
FROM -1.0000E+00 TO -1.0000E+00 NEGATIVE PROBABILITY IS -0.0000E+00
FROM -1.0000E+00 TO -1.0000E+00 NEGATIVE PROBABILITY IS -0.0000E+00
... [10 more lines]

```

53. A probability distribution is negative. This is bad.
FILE 6 / SECTION 5 / DISTRIBUTION IS NEGATIVE SEQUENCE NUMBER 1105
/ FROM -9.8438E-01 TO -1.0000E+00 NEGATIVE PROBABILITY IS -5.9605E-08
(0): Neg. prob.

```

FILE 6
SECTION 5
DISTRIBUTION IS NEGATIVE                      SEQUENCE NUMBER 1105
FROM -9.8438E-01 TO -1.0000E+00 NEGATIVE PROBABILITY IS -5.9605E-08

```

54. A probability distribution is negative. This is bad.
FILE 6 / SECTION 5 / DISTRIBUTION IS NEGATIVE SEQUENCE NUMBER 1105
/ FROM -1.0000E+00 TO -1.0000E+00 NEGATIVE PROBABILITY IS -0.0000E+00
(0): Neg. prob.

```

FILE 6
SECTION 5
DISTRIBUTION IS NEGATIVE                      SEQUENCE NUMBER 1105
FROM -1.0000E+00 TO -1.0000E+00 NEGATIVE PROBABILITY IS -0.0000E+00
FROM -1.0000E+00 TO -1.0000E+00 NEGATIVE PROBABILITY IS -0.0000E+00
... [8 more lines]

```

55. A probability distribution is negative. This is bad.
FILE 6 / SECTION 5 / DISTRIBUTION IS NEGATIVE SEQUENCE NUMBER 1116
/ FROM -7.5000E-01 TO -1.0000E+00 NEGATIVE PROBABILITY IS -1.7881E-07
(0): Neg. prob.

```

FILE 6
SECTION 5
DISTRIBUTION IS NEGATIVE                      SEQUENCE NUMBER 1116
FROM -7.5000E-01 TO -1.0000E+00 NEGATIVE PROBABILITY IS -1.7881E-07

```

56. A probability distribution is negative. This is bad.
FILE 6 / SECTION 5 / DISTRIBUTION IS NEGATIVE SEQUENCE NUMBER 1116
/ FROM -1.0000E+00 TO -1.0000E+00 NEGATIVE PROBABILITY IS -0.0000E+00
(0): Neg. prob.

```

FILE 6
SECTION 5
DISTRIBUTION IS NEGATIVE                      SEQUENCE NUMBER 1116
FROM -1.0000E+00 TO -1.0000E+00 NEGATIVE PROBABILITY IS -0.0000E+00
FROM -1.0000E+00 TO -1.0000E+00 NEGATIVE PROBABILITY IS -0.0000E+00
... [24 more lines]

```

57. A probability distribution is negative. This is bad.
FILE 6 / SECTION 5 / DISTRIBUTION IS NEGATIVE SEQUENCE NUMBER 1012
/ FROM -7.2522E-01 TO -1.0000E+00 NEGATIVE PROBABILITY IS 4.1723E-06
(0): Neg. prob.

```

FILE 6
SECTION 5
DISTRIBUTION IS NEGATIVE                      SEQUENCE NUMBER 1012
FROM -7.2522E-01 TO -1.0000E+00 NEGATIVE PROBABILITY IS 4.1723E-06
58. A probability distribution is negative. This is bad.
FILE 6 / SECTION 5 / DISTRIBUTION IS NEGATIVE SEQUENCE NUMBER 1033
/ FROM -8.7500E-01 TO -1.0000E+00 NEGATIVE PROBABILITY IS 1.6689E-06
(0): Neg. prob.

FILE 6
SECTION 5
DISTRIBUTION IS NEGATIVE                      SEQUENCE NUMBER 1033
FROM -8.7500E-01 TO -1.0000E+00 NEGATIVE PROBABILITY IS 1.6689E-06
59. A probability distribution is negative. This is bad.
FILE 6 / SECTION 5 / DISTRIBUTION IS NEGATIVE SEQUENCE NUMBER 1033
/ FROM -1.0000E+00 TO -1.0000E+00 NEGATIVE PROBABILITY IS -0.0000E+00
(0): Neg. prob.

FILE 6
SECTION 5
DISTRIBUTION IS NEGATIVE                      SEQUENCE NUMBER 1033
FROM -1.0000E+00 TO -1.0000E+00 NEGATIVE PROBABILITY IS -0.0000E+00
FROM -1.0000E+00 TO -1.0000E+00 NEGATIVE PROBABILITY IS -0.0000E+00
... [12 more lines]
60. A probability distribution is negative. This is bad.
FILE 6 / SECTION 5 / DISTRIBUTION IS NEGATIVE SEQUENCE NUMBER 1043
/ FROM -8.7500E-01 TO -1.0000E+00 NEGATIVE PROBABILITY IS 1.1921E-06
(0): Neg. prob.

FILE 6
SECTION 5
DISTRIBUTION IS NEGATIVE                      SEQUENCE NUMBER 1043
FROM -8.7500E-01 TO -1.0000E+00 NEGATIVE PROBABILITY IS 1.1921E-06
61. A probability distribution is negative. This is bad.
FILE 6 / SECTION 5 / DISTRIBUTION IS NEGATIVE SEQUENCE NUMBER 1054
/ FROM -7.5000E-01 TO -1.0000E+00 NEGATIVE PROBABILITY IS -2.9802E-08
(0): Neg. prob.

FILE 6
SECTION 5
DISTRIBUTION IS NEGATIVE                      SEQUENCE NUMBER 1054
FROM -7.5000E-01 TO -1.0000E+00 NEGATIVE PROBABILITY IS -2.9802E-08
62. A probability distribution is negative. This is bad.
FILE 6 / SECTION 5 / DISTRIBUTION IS NEGATIVE SEQUENCE NUMBER 1074
/ FROM -5.6250E-01 TO -1.0000E+00 NEGATIVE PROBABILITY IS 1.9670E-06
(0): Neg. prob.

FILE 6
SECTION 5
DISTRIBUTION IS NEGATIVE                      SEQUENCE NUMBER 1074
FROM -5.6250E-01 TO -1.0000E+00 NEGATIVE PROBABILITY IS 1.9670E-06

```

63. A probability distribution is negative. This is bad.
FILE 6 / SECTION 5 / DISTRIBUTION IS NEGATIVE SEQUENCE NUMBER 1085
/ FROM -5.0000E-01 TO -1.0000E+00 NEGATIVE PROBABILITY IS -6.5565E-07
(0): Neg. prob.

FILE 6
SECTION 5
DISTRIBUTION IS NEGATIVE SEQUENCE NUMBER 1085
FROM -5.0000E-01 TO -1.0000E+00 NEGATIVE PROBABILITY IS -6.5565E-07

64. A probability distribution is negative. This is bad.
FILE 6 / SECTION 5 / DISTRIBUTION IS NEGATIVE SEQUENCE NUMBER 1095
/ FROM -7.5000E-01 TO -1.0000E+00 NEGATIVE PROBABILITY IS 3.6359E-06
(0): Neg. prob.

FILE 6
SECTION 5
DISTRIBUTION IS NEGATIVE SEQUENCE NUMBER 1095
FROM -7.5000E-01 TO -1.0000E+00 NEGATIVE PROBABILITY IS 3.6359E-06

65. A probability distribution is negative. This is bad.
FILE 6 / SECTION 5 / DISTRIBUTION IS NEGATIVE SEQUENCE NUMBER 1116
/ FROM -5.0000E-01 TO -1.0000E+00 NEGATIVE PROBABILITY IS -5.3644E-07
(0): Neg. prob.

FILE 6
SECTION 5
DISTRIBUTION IS NEGATIVE SEQUENCE NUMBER 1116
FROM -5.0000E-01 TO -1.0000E+00 NEGATIVE PROBABILITY IS -5.3644E-07

66. A probability distribution is negative. This is bad.
FILE 6 / SECTION 5 / DISTRIBUTION IS NEGATIVE SEQUENCE NUMBER 1043
/ FROM -9.9890E-01 TO -1.0000E+00 NEGATIVE PROBABILITY IS 1.1921E-07
(0): Neg. prob.

FILE 6
SECTION 5
DISTRIBUTION IS NEGATIVE SEQUENCE NUMBER 1043
FROM -9.9890E-01 TO -1.0000E+00 NEGATIVE PROBABILITY IS 1.1921E-07

67. A probability distribution is negative. This is bad.
FILE 6 / SECTION 5 / DISTRIBUTION IS NEGATIVE SEQUENCE NUMBER 1054
/ FROM -8.7500E-01 TO -1.0000E+00 NEGATIVE PROBABILITY IS -1.0431E-06
(0): Neg. prob.

FILE 6
SECTION 5
DISTRIBUTION IS NEGATIVE SEQUENCE NUMBER 1054
FROM -8.7500E-01 TO -1.0000E+00 NEGATIVE PROBABILITY IS -1.0431E-06

68. A probability distribution is negative. This is bad.
FILE 6 / SECTION 5 / DISTRIBUTION IS NEGATIVE SEQUENCE NUMBER 1064
/ FROM -7.5000E-01 TO -1.0000E+00 NEGATIVE PROBABILITY IS 4.7684E-07
(0): Neg. prob.

FILE 6
SECTION 5
DISTRIBUTION IS NEGATIVE SEQUENCE NUMBER 1064
FROM -7.5000E-01 TO -1.0000E+00 NEGATIVE PROBABILITY IS 4.7684E-07

69. A probability distribution is negative. This is bad.
*FILE 6 / SECTION 5 / DISTRIBUTION IS NEGATIVE SEQUENCE NUMBER 1085
 / FROM -5.0000E-01 TO -1.0000E+00 NEGATIVE PROBABILITY IS 1.9073E-06
 (0): Neg. prob.*

FILE 6
SECTION 5
DISTRIBUTION IS NEGATIVE SEQUENCE NUMBER 1085
FROM -5.0000E-01 TO -1.0000E+00 NEGATIVE PROBABILITY IS 1.9073E-06

70. A probability distribution is negative. This is bad.
*FILE 6 / SECTION 5 / DISTRIBUTION IS NEGATIVE SEQUENCE NUMBER 1116
 / FROM -9.9997E-01 TO -1.0000E+00 NEGATIVE PROBABILITY IS -8.9407E-08
 (0): Neg. prob.*

FILE 6
SECTION 5
DISTRIBUTION IS NEGATIVE SEQUENCE NUMBER 1116
FROM -9.9997E-01 TO -1.0000E+00 NEGATIVE PROBABILITY IS -8.9407E-08

71. A probability distribution is negative. This is bad.
*FILE 6 / SECTION 5 / DISTRIBUTION IS NEGATIVE SEQUENCE NUMBER 1126
 / FROM -5.0000E-01 TO -1.0000E+00 NEGATIVE PROBABILITY IS -3.2783E-06
 (0): Neg. prob.*

FILE 6
SECTION 5
DISTRIBUTION IS NEGATIVE SEQUENCE NUMBER 1126
FROM -5.0000E-01 TO -1.0000E+00 NEGATIVE PROBABILITY IS -3.2783E-06

72. A probability distribution is negative. This is bad.
*FILE 6 / SECTION 5 / DISTRIBUTION IS NEGATIVE SEQUENCE NUMBER 1126
 / FROM -1.0000E+00 TO -1.0000E+00 NEGATIVE PROBABILITY IS -0.0000E+00
 (0): Neg. prob.*

FILE 6
SECTION 5
DISTRIBUTION IS NEGATIVE SEQUENCE NUMBER 1126
FROM -1.0000E+00 TO -1.0000E+00 NEGATIVE PROBABILITY IS -0.0000E+00
FROM -1.0000E+00 TO -1.0000E+00 NEGATIVE PROBABILITY IS -0.0000E+00
... [9 more lines]

73. A probability distribution is negative. This is bad.
*FILE 6 / SECTION 5 / DISTRIBUTION IS NEGATIVE SEQUENCE NUMBER 981 /
 FROM -7.5000E-01 TO -1.0000E+00 NEGATIVE PROBABILITY IS 4.8280E-06 (0):
 Neg. prob.*

FILE 6
SECTION 5
DISTRIBUTION IS NEGATIVE SEQUENCE NUMBER 981
FROM -7.5000E-01 TO -1.0000E+00 NEGATIVE PROBABILITY IS 4.8280E-06

74. A probability distribution is negative. This is bad.
FILE 6 / SECTION 5 / DISTRIBUTION IS NEGATIVE SEQUENCE NUMBER 981
/ FROM -1.0000E+00 TO -1.0000E+00 NEGATIVE PROBABILITY IS -0.0000E+00
(0): Neg. prob.

```
FILE 6
SECTION 5
DISTRIBUTION IS NEGATIVE                      SEQUENCE NUMBER 981
FROM -1.0000E+00 TO -1.0000E+00 NEGATIVE PROBABILITY IS -0.0000E+00
FROM -1.0000E+00 TO -1.0000E+00 NEGATIVE PROBABILITY IS -0.0000E+00
```

75. A probability distribution is negative. This is bad.
FILE 6 / SECTION 5 / DISTRIBUTION IS NEGATIVE SEQUENCE NUMBER 1002
/ FROM -8.7500E-01 TO -1.0000E+00 NEGATIVE PROBABILITY IS 1.1921E-07
(0): Neg. prob.

```
FILE 6
SECTION 5
DISTRIBUTION IS NEGATIVE                      SEQUENCE NUMBER 1002
FROM -8.7500E-01 TO -1.0000E+00 NEGATIVE PROBABILITY IS 1.1921E-07
```

76. A probability distribution is negative. This is bad.
FILE 6 / SECTION 5 / DISTRIBUTION IS NEGATIVE SEQUENCE NUMBER 1012
/ FROM -8.7500E-01 TO -1.0000E+00 NEGATIVE PROBABILITY IS -6.2585E-07
(0): Neg. prob.

```
FILE 6
SECTION 5
DISTRIBUTION IS NEGATIVE                      SEQUENCE NUMBER 1012
FROM -8.7500E-01 TO -1.0000E+00 NEGATIVE PROBABILITY IS -6.2585E-07
```

77. A probability distribution is negative. This is bad.
FILE 6 / SECTION 5 / DISTRIBUTION IS NEGATIVE SEQUENCE NUMBER 1033
/ FROM -7.5000E-01 TO -1.0000E+00 NEGATIVE PROBABILITY IS 3.1590E-06
(0): Neg. prob.

```
FILE 6
SECTION 5
DISTRIBUTION IS NEGATIVE                      SEQUENCE NUMBER 1033
FROM -7.5000E-01 TO -1.0000E+00 NEGATIVE PROBABILITY IS 3.1590E-06
```

78. A probability distribution is negative. This is bad.
FILE 6 / SECTION 5 / DISTRIBUTION IS NEGATIVE SEQUENCE NUMBER 1043
/ FROM -8.7500E-01 TO -1.0000E+00 NEGATIVE PROBABILITY IS -1.1921E-06
(0): Neg. prob.

```
FILE 6
SECTION 5
DISTRIBUTION IS NEGATIVE                      SEQUENCE NUMBER 1043
FROM -8.7500E-01 TO -1.0000E+00 NEGATIVE PROBABILITY IS -1.1921E-06
```

79. A probability distribution is negative. This is bad.
FILE 6 / SECTION 5 / DISTRIBUTION IS NEGATIVE SEQUENCE NUMBER 1054
/ FROM -5.0000E-01 TO -1.0000E+00 NEGATIVE PROBABILITY IS 1.2338E-05
(0): Neg. prob.


```

FILE 6
SECTION 5
DISTRIBUTION IS NEGATIVE                      SEQUENCE NUMBER 1054
FROM -5.0000E-01 TO -1.0000E+00 NEGATIVE PROBABILITY IS 1.2338E-05

```

80. A probability distribution is negative. This is bad.
FILE 6 / SECTION 5 / DISTRIBUTION IS NEGATIVE SEQUENCE NUMBER 1126
/ FROM -5.0000E-01 TO -1.0000E+00 NEGATIVE PROBABILITY IS 3.6955E-06
(0): Neg. prob.

```

FILE 6
SECTION 5
DISTRIBUTION IS NEGATIVE                      SEQUENCE NUMBER 1126
FROM -5.0000E-01 TO -1.0000E+00 NEGATIVE PROBABILITY IS 3.6955E-06

```

81. A probability distribution is negative. This is bad.
FILE 6 / SECTION 5 / DISTRIBUTION IS NEGATIVE SEQUENCE NUMBER 1126
(0): Neg. prob.

```

FILE 6
SECTION 5
DISTRIBUTION IS NEGATIVE                      SEQUENCE NUMBER 1126
ENERGY BALANCE SUMMARY: Q = -5.46500E+06      ENERGY BALANCE SUMMARY: Q = -5.46500E+06

```

82. A probability distribution is negative. This is bad.
FILE 6 / SECTION 5 / DISTRIBUTION IS NEGATIVE SEQUENCE NUMBER 1126
/ ENERGY BALANCE SUMMARY: Q = -5.46500E+06 (0): Neg. prob.

```

FILE 6
SECTION 5
DISTRIBUTION IS NEGATIVE                      SEQUENCE NUMBER 1126
ENERGY BALANCE SUMMARY: Q = -5.46500E+06

```

- **groupie** Errors:

1. Very small elastic cross section found
0: Small elastic

Multi-Group and Multi-Band Parameters from ENDF/B Data (GROUPIE 2015-2)

```

-----
ENDF/B Input and Output Data Filenames
ENDFB.IN
ENDFB.OUT
... [98 more lines]

```

- **fudge-4.0** Warnings:

1. FIXME: Another genuine fudge bug!
(Error # 2): Fudge check bug

FAILURE: ENDF EVALUATION CHECKING HALTED BECAUSE 'NoneType' object has no attribute 'getColumn' 'NoneType' object

- **fudge-4.0** Errors:

1. Level energy in gamma data doesn't match level energy in cross section data
Reading ENDF file: ../n-026_Fe_058.endf (Error # 0): Level mismatch (d)

- WARNING: MT601 MF12 level energy 71770.01 differs from MF3 value 71769.0. Setting to MF12 value.
2. Level energy in gamma data doesn't match level energy in cross section data
Reading ENDF file: ../n-026_Fe-058.endf (Error # 1): Level mismatch (d)
- WARNING: MT602 MF12 level energy 125690.0 differs from MF3 value 125689.0. Setting to MF3 value.
3. Level energy in gamma data doesn't match level energy in cross section data
Reading ENDF file: ../n-026_Fe-058.endf (Error # 2): Level mismatch (d)
- WARNING: MT604 MF12 level energy 183000.0 differs from MF3 value 182999.0. Setting to MF3 value.
4. Level energy in gamma data doesn't match level energy in cross section data
Reading ENDF file: ../n-026_Fe-058.endf (Error # 3): Level mismatch (d)
- WARNING: MT605 MF12 level energy 289400.0 differs from MF3 value 289399.0. Setting to MF3 value.
5. Level energy in gamma data doesn't match level energy in cross section data
Reading ENDF file: ../n-026_Fe-058.endf (Error # 4): Level mismatch (d)
- WARNING: MT606 MF12 level energy 429670.0 differs from MF3 value 429669.0. Setting to MF3 value.
6. Level energy in gamma data doesn't match level energy in cross section data
Reading ENDF file: ../n-026_Fe-058.endf (Error # 5): Level mismatch (d)
- WARNING: MT607 MF12 level energy 448030.0 differs from MF3 value 448029.0. Setting to MF3 value.
7. Level energy in gamma data doesn't match level energy in cross section data
Reading ENDF file: ../n-026_Fe-058.endf (Error # 6): Level mismatch (d)
- WARNING: MT608 MF12 level energy 463400.0 differs from MF3 value 463399.0. Setting to MF3 value.
8. Level energy in gamma data doesn't match level energy in cross section data
Reading ENDF file: ../n-026_Fe-058.endf (Error # 7): Level mismatch (d)
- WARNING: MT609 MF12 level energy 591220.0 differs from MF3 value 591219.0. Setting to MF3 value.
9. Level energy in gamma data doesn't match level energy in cross section data
Reading ENDF file: ../n-026_Fe-058.endf (Error # 8): Level mismatch (d)
- WARNING: MT610 MF12 level energy 651000.0 differs from MF3 value 650999.0. Setting to MF3 value.
10. Level energy in gamma data doesn't match level energy in cross section data
Reading ENDF file: ../n-026_Fe-058.endf (Error # 9): Level mismatch (d)
- WARNING: MT611 MF12 level energy 661110.0 differs from MF3 value 661109.0. Setting to MF3 value.
11. Level energy in gamma data doesn't match level energy in cross section data
Reading ENDF file: ../n-026_Fe-058.endf (Error # 10): Level mismatch (d)
- WARNING: MT612 MF12 level energy 683100.0 differs from MF3 value 683099.0. Setting to MF3 value.
12. Level energy in gamma data doesn't match level energy in cross section data
Reading ENDF file: ../n-026_Fe-058.endf (Error # 11): Level mismatch (d)
- WARNING: MT613 MF12 level energy 735380.0 differs from MF3 value 735379.0. Setting to MF3 value.

13. Level energy in gamma data doesn't match level energy in cross section data
Reading ENDF file: ../n-026_Fe-058.endf (Error # 12): Level mismatch (d)

WARNING: MT614 MF12 level energy 748000.0 differs from MF3 value 747999.0. Setting to MF3 value.

14. Level energy in gamma data doesn't match level energy in cross section data
Reading ENDF file: ../n-026_Fe-058.endf (Error # 13): Level mismatch (d)

WARNING: MT615 MF12 level energy 809700.0 differs from MF3 value 809699.0. Setting to MF3 value.

15. Level energy in gamma data doesn't match level energy in cross section data
Reading ENDF file: ../n-026_Fe-058.endf (Error # 14): Level mismatch (d)

WARNING: MT616 MF12 level energy 817000.0 differs from MF3 value 816999.0. Setting to MF3 value.

16. Level energy in gamma data doesn't match level energy in cross section data
Reading ENDF file: ../n-026_Fe-058.endf (Error # 15): Level mismatch (d)

WARNING: MT802 MF12 level energy 517700.1 differs from MF3 value 517700.0. Setting to MF12 value.

17. Level energy in gamma data doesn't match level energy in cross section data
Reading ENDF file: ../n-026_Fe-058.endf (Error # 16): Level mismatch (d)

WARNING: MT803 MF12 level energy 565910.1 differs from MF3 value 565910.0. Setting to MF12 value.

18. Exception AttributeError was thrown
FAILURE: ENDF EVALUATION CHECKING HALTED BECAUSE 'NoneType' object has no attribute 'getColumn' 'NoneType' object has no attribute 'getColumn' (Error # 1): AttributeError

AttributeError: 'NoneType' object has no attribute 'getColumn'

- njoy2012 Warnings:

1. Message comes from several resonance types that do not support the calculation of angular distributions. Some of them can be used if `Want_SAMRL_RM` or `Want_SAMRML_BW` are true.
reconr...reconstruct pointwise cross sections in pendf format (0): RECONR/calculation of angular distribution not installed (0)

```
---message from rdf2bw---calculation of angular distribution not installed.
      samm max legendre order:  0
```

2. Recoil is not given, so one-particle recoil approximation used.
heatr...prompt kerma (0): HEATR/hinit (4)

```
---message from hinit---mf6, mt 16 does not give recoil za= 26057
      one-particle recoil approx. used.
```

3. Recoil is not given, so one-particle recoil approximation used.
heatr...prompt kerma (1): HEATR/hinit (4)

```
---message from hinit---mf6, mt 17 does not give recoil za= 26056
      one-particle recoil approx. used.
```

4. Recoil is not given, so one-particle recoil approximation used.
heatr...prompt kerma (2): HEATR/hinit (4)

---message from hinit---mf6, mt 37 does not give recoil za= 26055
 one-particle recoil approx. used.

5. Recoil is not given, so one-particle recoil approximation used.
heatr...prompt kerma (3): HEATR/hinit (4)

---message from hinit---mf6, mt 91 does not give recoil za= 26058
 one-particle recoil approx. used.

6. Recoil is not given, so one-particle recoil approximation used.
heatr...prompt kerma (4): HEATR/hinit (4)

---message from hinit---mf6, mt102 does not give recoil za= 26059
 photon momentum recoil used.

7. Recoil is not given, so one-particle recoil approximation used.
heatr...prompt kerma (5): HEATR/hinit (4)

---message from hinit---mf6, mt111 does not give recoil za= 24057
 one-particle recoil approx. used.

8. Recoil is not given, so one-particle recoil approximation used.
heatr...prompt kerma (6): HEATR/hinit (4)

---message from hinit---mf6, mt649 does not give recoil za= 25058
 one-particle recoil approx. used.

• njoy2012 Errors:

1. An angular distribution is negative
acer...monte carlo neutron and photon data (0): Neg. P(Ej μ) (b)

---message from ptleg2---negative probs found
 3 for mt= 51 e= 1.500E+08

2. An angular distribution is negative
acer...monte carlo neutron and photon data (1): Neg. P(Ej μ) (b)

---message from ptleg2---negative probs found
 3 for mt= 55 e= 1.000E+08

3. An angular distribution is negative
acer...monte carlo neutron and photon data (2): Neg. P(Ej μ) (b)

---message from ptleg2---negative probs found
 2 for mt= 60 e= 8.000E+07

4. An angular distribution is negative
acer...monte carlo neutron and photon data (3): Neg. P(Ej μ) (b)

---message from ptleg2---negative probs found
 1 for mt= 5 e= 8.648E+01

5. An angular distribution is negative
acer...monte carlo neutron and photon data (4): Neg. $P(Ej\mu)$ (b)

```

---message from ptleg2---negative probs found
      2 for mt=  5 e= 1.267E+02

```
6. An angular distribution is negative
acer...monte carlo neutron and photon data (5): Neg. $P(Ej\mu)$ (b)

```

---message from ptleg2---negative probs found
      4 for mt=  5 e= 1.354E+02

```
7. An angular distribution is negative
acer...monte carlo neutron and photon data (6): Neg. $P(Ej\mu)$ (b)

```

---message from ptleg2---negative probs found
      2 for mt= 16 e= 5.866E+01

```
8. An angular distribution is negative
acer...monte carlo neutron and photon data (7): Neg. $P(Ej\mu)$ (b)

```

---message from ptleg2---negative probs found
      3 for mt= 16 e= 8.621E+01

```
9. An angular distribution is negative
acer...monte carlo neutron and photon data (8): Neg. $P(Ej\mu)$ (b)

```

---message from ptleg2---negative probs found
      1 for mt= 16 e= 9.474E+01

```
10. An angular distribution is negative
acer...monte carlo neutron and photon data (9): Neg. $P(Ej\mu)$ (b)

```

---message from ptleg2---negative probs found
      1 for mt= 16 e= 9.579E+01

```
11. An angular distribution is negative
acer...monte carlo neutron and photon data (10): Neg. $P(Ej\mu)$ (b)

```

---message from ptleg2---negative probs found
      1 for mt= 16 e= 1.009E+02

```
12. An angular distribution is negative
acer...monte carlo neutron and photon data (11): Neg. $P(Ej\mu)$ (b)

```

---message from ptleg2---negative probs found
      1 for mt= 16 e= 1.030E+02

```
13. An angular distribution is negative
acer...monte carlo neutron and photon data (12): Neg. $P(Ej\mu)$ (b)

```

---message from ptleg2---negative probs found
      1 for mt= 16 e= 9.902E+01

```
14. An angular distribution is negative
acer...monte carlo neutron and photon data (13): Neg. $P(Ej\mu)$ (b)

- message from ptleg2---negative probs found
2 for mt= 16 e= 1.101E+02
15. An angular distribution is negative
acer...monte carlo neutron and photon data (14): Neg. $P(Ej\mu)$ (b)
- message from ptleg2---negative probs found
1 for mt= 16 e= 1.146E+02
16. An angular distribution is negative
acer...monte carlo neutron and photon data (15): Neg. $P(Ej\mu)$ (b)
- message from ptleg2---negative probs found
1 for mt= 16 e= 1.157E+02
17. An angular distribution is negative
acer...monte carlo neutron and photon data (16): Neg. $P(Ej\mu)$ (b)
- message from ptleg2---negative probs found
1 for mt= 16 e= 1.076E+02
18. An angular distribution is negative
acer...monte carlo neutron and photon data (17): Neg. $P(Ej\mu)$ (b)
- message from ptleg2---negative probs found
1 for mt= 16 e= 1.135E+02
19. An angular distribution is negative
acer...monte carlo neutron and photon data (18): Neg. $P(Ej\mu)$ (b)
- message from ptleg2---negative probs found
2 for mt= 16 e= 1.231E+02
20. An angular distribution is negative
acer...monte carlo neutron and photon data (19): Neg. $P(Ej\mu)$ (b)
- message from ptleg2---negative probs found
2 for mt= 16 e= 1.137E+02
21. An angular distribution is negative
acer...monte carlo neutron and photon data (20): Neg. $P(Ej\mu)$ (b)
- message from ptleg2---negative probs found
2 for mt= 16 e= 1.214E+02
22. An angular distribution is negative
acer...monte carlo neutron and photon data (21): Neg. $P(Ej\mu)$ (b)
- message from ptleg2---negative probs found
4 for mt= 16 e= 1.239E+02
23. An angular distribution is negative
acer...monte carlo neutron and photon data (22): Neg. $P(Ej\mu)$ (b)
- message from ptleg2---negative probs found
1 for mt= 16 e= 1.252E+02

24. An angular distribution is negative
acer...monte carlo neutron and photon data (23): Neg. $P(Ej\mu)$ (b)
- ```

---message from ptleg2---negative probs found
 1 for mt= 16 e= 1.278E+02

```
25. An angular distribution is negative  
*acer...monte carlo neutron and photon data (24): Neg.  $P(Ej\mu)$  (b)*
- ```

---message from ptleg2---negative probs found
     53 for mt= 16 e= 1.329E+02

```
26. An angular distribution is negative
acer...monte carlo neutron and photon data (25): Neg. $P(Ej\mu)$ (b)
- ```

---message from ptleg2---negative probs found
 2 for mt= 17 e= 5.866E+01

```
27. An angular distribution is negative  
*acer...monte carlo neutron and photon data (26): Neg.  $P(Ej\mu)$  (b)*
- ```

---message from ptleg2---negative probs found
      1 for mt= 17 e= 7.958E+01

```
28. An angular distribution is negative
acer...monte carlo neutron and photon data (27): Neg. $P(Ej\mu)$ (b)
- ```

---message from ptleg2---negative probs found
 2 for mt= 17 e= 1.001E+02

```
29. An angular distribution is negative  
*acer...monte carlo neutron and photon data (28): Neg.  $P(Ej\mu)$  (b)*
- ```

---message from ptleg2---negative probs found
      1 for mt= 17 e= 1.100E+02

```
30. An angular distribution is negative
acer...monte carlo neutron and photon data (29): Neg. $P(Ej\mu)$ (b)
- ```

---message from ptleg2---negative probs found
 2 for mt= 17 e= 1.214E+02

```
31. An angular distribution is negative  
*acer...monte carlo neutron and photon data (30): Neg.  $P(Ej\mu)$  (b)*
- ```

---message from ptleg2---negative probs found
      1 for mt= 17 e= 1.239E+02

```
32. An angular distribution is negative
acer...monte carlo neutron and photon data (31): Neg. $P(Ej\mu)$ (b)
- ```

---message from ptleg2---negative probs found
 1 for mt= 17 e= 1.265E+02

```
33. An angular distribution is negative  
*acer...monte carlo neutron and photon data (32): Neg.  $P(Ej\mu)$  (b)*

- message from ptleg2---negative probs found  
1 for mt= 91 e= 6.714E+01
34. An angular distribution is negative  
*acer...monte carlo neutron and photon data (33): Neg.  $P(Ej\mu)$  (b)*
- message from ptleg2---negative probs found  
2 for mt= 91 e= 7.206E+01
35. An angular distribution is negative  
*acer...monte carlo neutron and photon data (34): Neg.  $P(Ej\mu)$  (b)*
- message from ptleg2---negative probs found  
2 for mt= 91 e= 5.866E+01
36. An angular distribution is negative  
*acer...monte carlo neutron and photon data (35): Neg.  $P(Ej\mu)$  (b)*
- message from ptleg2---negative probs found  
1 for mt= 91 e= 6.903E+01
37. An angular distribution is negative  
*acer...monte carlo neutron and photon data (36): Neg.  $P(Ej\mu)$  (b)*
- message from ptleg2---negative probs found  
3 for mt= 91 e= 8.621E+01
38. An angular distribution is negative  
*acer...monte carlo neutron and photon data (37): Neg.  $P(Ej\mu)$  (b)*
- message from ptleg2---negative probs found  
1 for mt= 91 e= 9.579E+01
39. An angular distribution is negative  
*acer...monte carlo neutron and photon data (38): Neg.  $P(Ej\mu)$  (b)*
- message from ptleg2---negative probs found  
2 for mt= 91 e= 9.790E+01
40. An angular distribution is negative  
*acer...monte carlo neutron and photon data (39): Neg.  $P(Ej\mu)$  (b)*
- message from ptleg2---negative probs found  
3 for mt= 91 e= 1.101E+02
41. An angular distribution is negative  
*acer...monte carlo neutron and photon data (40): Neg.  $P(Ej\mu)$  (b)*
- message from ptleg2---negative probs found  
1 for mt= 91 e= 1.146E+02
42. An angular distribution is negative  
*acer...monte carlo neutron and photon data (41): Neg.  $P(Ej\mu)$  (b)*
- message from ptleg2---negative probs found  
1 for mt= 91 e= 1.088E+02



43. An angular distribution is negative  
*acer...monte carlo neutron and photon data (42): Neg.  $P(Ej\mu)$  (b)*
- message from ptleg2---negative probs found  
4 for mt= 91 e= 1.195E+02
44. An angular distribution is negative  
*acer...monte carlo neutron and photon data (43): Neg.  $P(Ej\mu)$  (b)*
- message from ptleg2---negative probs found  
1 for mt= 91 e= 1.243E+02
45. An angular distribution is negative  
*acer...monte carlo neutron and photon data (44): Neg.  $P(Ej\mu)$  (b)*
- message from ptleg2---negative probs found  
1 for mt= 91 e= 1.255E+02
46. An angular distribution is negative  
*acer...monte carlo neutron and photon data (45): Neg.  $P(Ej\mu)$  (b)*
- message from ptleg2---negative probs found  
2 for mt= 91 e= 1.150E+02
47. An angular distribution is negative  
*acer...monte carlo neutron and photon data (46): Neg.  $P(Ej\mu)$  (b)*
- message from ptleg2---negative probs found  
1 for mt= 91 e= 1.176E+02
48. An angular distribution is negative  
*acer...monte carlo neutron and photon data (47): Neg.  $P(Ej\mu)$  (b)*
- message from ptleg2---negative probs found  
1 for mt= 91 e= 1.214E+02
49. An angular distribution is negative  
*acer...monte carlo neutron and photon data (48): Neg.  $P(Ej\mu)$  (b)*
- message from ptleg2---negative probs found  
3 for mt= 91 e= 1.278E+02
50. An angular distribution is negative  
*acer...monte carlo neutron and photon data (49): Neg.  $P(Ej\mu)$  (b)*
- message from ptleg2---negative probs found  
9 for mt= 91 e= 1.329E+02
51. An angular distribution is negative  
*acer...monte carlo neutron and photon data (50): Neg.  $P(Ej\mu)$  (b)*
- message from ptleg2---negative probs found  
5 for mt= 91 e= 1.354E+02
52. An angular distribution is negative  
*acer...monte carlo neutron and photon data (51): Neg.  $P(Ej\mu)$  (b)*

- message from ptleg2---negative probs found  
25 for mt=111 e= 1.101E+02
53. An angular distribution is negative  
*acer...monte carlo neutron and photon data (52): Neg.  $P(Ej\mu)$  (b)*
- message from ptleg2---negative probs found  
57 for mt=111 e= 1.159E+02
54. An angular distribution is negative  
*acer...monte carlo neutron and photon data (53): Neg.  $P(Ej\mu)$  (b)*
- message from ptleg2---negative probs found  
45 for mt=111 e= 1.171E+02
55. An angular distribution is negative  
*acer...monte carlo neutron and photon data (54): Neg.  $P(Ej\mu)$  (b)*
- message from ptleg2---negative probs found  
18 for mt=111 e= 1.195E+02
56. An angular distribution is negative  
*acer...monte carlo neutron and photon data (55): Neg.  $P(Ej\mu)$  (b)*
- message from ptleg2---negative probs found  
42 for mt=111 e= 1.203E+02
57. An angular distribution is negative  
*acer...monte carlo neutron and photon data (56): Neg.  $P(Ej\mu)$  (b)*
- message from ptleg2---negative probs found  
25 for mt=111 e= 1.214E+02
58. An angular distribution is negative  
*acer...monte carlo neutron and photon data (57): Neg.  $P(Ej\mu)$  (b)*
- message from ptleg2---negative probs found  
28 for mt=111 e= 1.227E+02
59. An angular distribution is negative  
*acer...monte carlo neutron and photon data (58): Neg.  $P(Ej\mu)$  (b)*
- message from ptleg2---negative probs found  
24 for mt=111 e= 1.239E+02
60. An angular distribution is negative  
*acer...monte carlo neutron and photon data (59): Neg.  $P(Ej\mu)$  (b)*
- message from ptleg2---negative probs found  
35 for mt=111 e= 1.252E+02
61. An angular distribution is negative  
*acer...monte carlo neutron and photon data (60): Neg.  $P(Ej\mu)$  (b)*
- message from ptleg2---negative probs found  
42 for mt=111 e= 1.265E+02

62. An angular distribution is negative  
*acer...monte carlo neutron and photon data (61): Neg.  $P(Ej\mu)$  (b)*
- message from ptleg2---negative probs found  
38 for mt=111 e= 1.278E+02
63. An angular distribution is negative  
*acer...monte carlo neutron and photon data (62): Neg.  $P(Ej\mu)$  (b)*
- message from ptleg2---negative probs found  
28 for mt=111 e= 1.291E+02
64. An angular distribution is negative  
*acer...monte carlo neutron and photon data (63): Neg.  $P(Ej\mu)$  (b)*
- message from ptleg2---negative probs found  
1 for mt=649 e= 6.366E+01
65. An angular distribution is negative  
*acer...monte carlo neutron and photon data (64): Neg.  $P(Ej\mu)$  (b)*
- message from ptleg2---negative probs found  
1 for mt=649 e= 8.907E+01
66. An angular distribution is negative  
*acer...monte carlo neutron and photon data (65): Neg.  $P(Ej\mu)$  (b)*
- message from ptleg2---negative probs found  
24 for mt=649 e= 8.994E+01
67. An angular distribution is negative  
*acer...monte carlo neutron and photon data (66): Neg.  $P(Ej\mu)$  (b)*
- message from ptleg2---negative probs found  
22 for mt=649 e= 9.080E+01
68. An angular distribution is negative  
*acer...monte carlo neutron and photon data (67): Neg.  $P(Ej\mu)$  (b)*
- message from ptleg2---negative probs found  
68 for mt=649 e= 9.167E+01
69. An angular distribution is negative  
*acer...monte carlo neutron and photon data (68): Neg.  $P(Ej\mu)$  (b)*
- message from ptleg2---negative probs found  
1 for mt=649 e= 9.095E+01
70. An angular distribution is negative  
*acer...monte carlo neutron and photon data (69): Neg.  $P(Ej\mu)$  (b)*
- message from ptleg2---negative probs found  
1 for mt=649 e= 9.189E+01
71. An angular distribution is negative  
*acer...monte carlo neutron and photon data (70): Neg.  $P(Ej\mu)$  (b)*

- message from ptleg2---negative probs found  
35 for mt=649 e= 9.663E+01
72. An angular distribution is negative  
*acer...monte carlo neutron and photon data (71): Neg.  $P(Ej\mu)$  (b)*
- message from ptleg2---negative probs found  
10 for mt=649 e= 9.758E+01
73. An angular distribution is negative  
*acer...monte carlo neutron and photon data (72): Neg.  $P(Ej\mu)$  (b)*
- message from ptleg2---negative probs found  
62 for mt=649 e= 9.853E+01
74. An angular distribution is negative  
*acer...monte carlo neutron and photon data (73): Neg.  $P(Ej\mu)$  (b)*
- message from ptleg2---negative probs found  
3 for mt=649 e= 1.004E+02
75. An angular distribution is negative  
*acer...monte carlo neutron and photon data (74): Neg.  $P(Ej\mu)$  (b)*
- message from ptleg2---negative probs found  
52 for mt=649 e= 1.014E+02
76. An angular distribution is negative  
*acer...monte carlo neutron and photon data (75): Neg.  $P(Ej\mu)$  (b)*
- message from ptleg2---negative probs found  
1 for mt=649 e= 7.622E+01
77. An angular distribution is negative  
*acer...monte carlo neutron and photon data (76): Neg.  $P(Ej\mu)$  (b)*
- message from ptleg2---negative probs found  
1 for mt=649 e= 9.682E+01
78. An angular distribution is negative  
*acer...monte carlo neutron and photon data (77): Neg.  $P(Ej\mu)$  (b)*
- message from ptleg2---negative probs found  
2 for mt=649 e= 9.991E+01
79. An angular distribution is negative  
*acer...monte carlo neutron and photon data (78): Neg.  $P(Ej\mu)$  (b)*
- message from ptleg2---negative probs found  
1 for mt=649 e= 1.020E+02
80. An angular distribution is negative  
*acer...monte carlo neutron and photon data (79): Neg.  $P(Ej\mu)$  (b)*
- message from ptleg2---negative probs found  
46 for mt=649 e= 1.040E+02

81. An angular distribution is negative  
*acer...monte carlo neutron and photon data (80): Neg.  $P(Ej\mu)$  (b)*
- message from ptleg2---negative probs found  
30 for mt=649 e= 1.051E+02
82. An angular distribution is negative  
*acer...monte carlo neutron and photon data (81): Neg.  $P(Ej\mu)$  (b)*
- message from ptleg2---negative probs found  
36 for mt=649 e= 1.061E+02
83. An angular distribution is negative  
*acer...monte carlo neutron and photon data (82): Neg.  $P(Ej\mu)$  (b)*
- message from ptleg2---negative probs found  
25 for mt=649 e= 1.071E+02
84. An angular distribution is negative  
*acer...monte carlo neutron and photon data (83): Neg.  $P(Ej\mu)$  (b)*
- message from ptleg2---negative probs found  
55 for mt=649 e= 1.081E+02
85. An angular distribution is negative  
*acer...monte carlo neutron and photon data (84): Neg.  $P(Ej\mu)$  (b)*
- message from ptleg2---negative probs found  
20 for mt=649 e= 1.092E+02
86. An angular distribution is negative  
*acer...monte carlo neutron and photon data (85): Neg.  $P(Ej\mu)$  (b)*
- message from ptleg2---negative probs found  
47 for mt=649 e= 1.102E+02
87. An angular distribution is negative  
*acer...monte carlo neutron and photon data (86): Neg.  $P(Ej\mu)$  (b)*
- message from ptleg2---negative probs found  
21 for mt=649 e= 1.112E+02
88. An angular distribution is negative  
*acer...monte carlo neutron and photon data (87): Neg.  $P(Ej\mu)$  (b)*
- message from ptleg2---negative probs found  
3 for mt=649 e= 9.123E+01
89. An angular distribution is negative  
*acer...monte carlo neutron and photon data (88): Neg.  $P(Ej\mu)$  (b)*
- message from ptleg2---negative probs found  
37 for mt=649 e= 1.090E+02
90. An angular distribution is negative  
*acer...monte carlo neutron and photon data (89): Neg.  $P(Ej\mu)$  (b)*

- message from ptleg2---negative probs found  
38 for mt=649 e= 1.101E+02
91. An angular distribution is negative  
*acer...monte carlo neutron and photon data (90): Neg.  $P(Ej\mu)$  (b)*
- message from ptleg2---negative probs found  
30 for mt=649 e= 1.113E+02
92. An angular distribution is negative  
*acer...monte carlo neutron and photon data (91): Neg.  $P(Ej\mu)$  (b)*
- message from ptleg2---negative probs found  
36 for mt=649 e= 1.124E+02
93. An angular distribution is negative  
*acer...monte carlo neutron and photon data (92): Neg.  $P(Ej\mu)$  (b)*
- message from ptleg2---negative probs found  
13 for mt=649 e= 1.135E+02
94. An angular distribution is negative  
*acer...monte carlo neutron and photon data (93): Neg.  $P(Ej\mu)$  (b)*
- message from ptleg2---negative probs found  
36 for mt=649 e= 1.146E+02
95. An angular distribution is negative  
*acer...monte carlo neutron and photon data (94): Neg.  $P(Ej\mu)$  (b)*
- message from ptleg2---negative probs found  
34 for mt=649 e= 1.157E+02
96. An angular distribution is negative  
*acer...monte carlo neutron and photon data (95): Neg.  $P(Ej\mu)$  (b)*
- message from ptleg2---negative probs found  
81 for mt=649 e= 1.168E+02
97. An angular distribution is negative  
*acer...monte carlo neutron and photon data (96): Neg.  $P(Ej\mu)$  (b)*
- message from ptleg2---negative probs found  
41 for mt=649 e= 1.179E+02
98. An angular distribution is negative  
*acer...monte carlo neutron and photon data (97): Neg.  $P(Ej\mu)$  (b)*
- message from ptleg2---negative probs found  
38 for mt=649 e= 1.190E+02
99. An angular distribution is negative  
*acer...monte carlo neutron and photon data (98): Neg.  $P(Ej\mu)$  (b)*
- message from ptleg2---negative probs found  
20 for mt=649 e= 1.202E+02

100. An angular distribution is negative  
*acer...monte carlo neutron and photon data (99): Neg.  $P(Ej\mu)$  (b)*
- message from ptleg2---negative probs found  
41 for mt=649 e= 1.213E+02
101. An angular distribution is negative  
*acer...monte carlo neutron and photon data (100): Neg.  $P(Ej\mu)$  (b)*
- message from ptleg2---negative probs found  
32 for mt=649 e= 1.159E+02
102. An angular distribution is negative  
*acer...monte carlo neutron and photon data (101): Neg.  $P(Ej\mu)$  (b)*
- message from ptleg2---negative probs found  
10 for mt=649 e= 1.171E+02
103. An angular distribution is negative  
*acer...monte carlo neutron and photon data (102): Neg.  $P(Ej\mu)$  (b)*
- message from ptleg2---negative probs found  
56 for mt=649 e= 1.183E+02
104. An angular distribution is negative  
*acer...monte carlo neutron and photon data (103): Neg.  $P(Ej\mu)$  (b)*
- message from ptleg2---negative probs found  
13 for mt=649 e= 1.195E+02
105. An angular distribution is negative  
*acer...monte carlo neutron and photon data (104): Neg.  $P(Ej\mu)$  (b)*
- message from ptleg2---negative probs found  
1 for mt=649 e= 1.207E+02
106. An angular distribution is negative  
*acer...monte carlo neutron and photon data (105): Neg.  $P(Ej\mu)$  (b)*
- message from ptleg2---negative probs found  
50 for mt=649 e= 1.219E+02
107. An angular distribution is negative  
*acer...monte carlo neutron and photon data (106): Neg.  $P(Ej\mu)$  (b)*
- message from ptleg2---negative probs found  
22 for mt=649 e= 1.231E+02
108. An angular distribution is negative  
*acer...monte carlo neutron and photon data (107): Neg.  $P(Ej\mu)$  (b)*
- message from ptleg2---negative probs found  
30 for mt=649 e= 1.243E+02
109. An angular distribution is negative  
*acer...monte carlo neutron and photon data (108): Neg.  $P(Ej\mu)$  (b)*

- message from ptleg2---negative probs found  
25 for mt=649 e= 1.255E+02
110. An angular distribution is negative  
*acer...monte carlo neutron and photon data (109): Neg.  $P(Ej\mu)$  (b)*
- message from ptleg2---negative probs found  
15 for mt=649 e= 1.267E+02
111. An angular distribution is negative  
*acer...monte carlo neutron and photon data (110): Neg.  $P(Ej\mu)$  (b)*
- message from ptleg2---negative probs found  
69 for mt=649 e= 1.279E+02
112. An angular distribution is negative  
*acer...monte carlo neutron and photon data (111): Neg.  $P(Ej\mu)$  (b)*
- message from ptleg2---negative probs found  
22 for mt=649 e= 1.291E+02
113. An angular distribution is negative  
*acer...monte carlo neutron and photon data (112): Neg.  $P(Ej\mu)$  (b)*
- message from ptleg2---negative probs found  
53 for mt=649 e= 1.303E+02
114. An angular distribution is negative  
*acer...monte carlo neutron and photon data (113): Neg.  $P(Ej\mu)$  (b)*
- message from ptleg2---negative probs found  
32 for mt=649 e= 1.214E+02
115. An angular distribution is negative  
*acer...monte carlo neutron and photon data (114): Neg.  $P(Ej\mu)$  (b)*
- message from ptleg2---negative probs found  
23 for mt=649 e= 1.227E+02
116. An angular distribution is negative  
*acer...monte carlo neutron and photon data (115): Neg.  $P(Ej\mu)$  (b)*
- message from ptleg2---negative probs found  
14 for mt=649 e= 1.239E+02
117. An angular distribution is negative  
*acer...monte carlo neutron and photon data (116): Neg.  $P(Ej\mu)$  (b)*
- message from ptleg2---negative probs found  
29 for mt=649 e= 1.252E+02
118. An angular distribution is negative  
*acer...monte carlo neutron and photon data (117): Neg.  $P(Ej\mu)$  (b)*
- message from ptleg2---negative probs found  
49 for mt=649 e= 1.265E+02



119. An angular distribution is negative  
*acer...monte carlo neutron and photon data (118): Neg.  $P(Ej\mu)$  (b)*
- message from ptleg2---negative probs found  
50 for mt=649 e= 1.278E+02
120. An angular distribution is negative  
*acer...monte carlo neutron and photon data (119): Neg.  $P(Ej\mu)$  (b)*
- message from ptleg2---negative probs found  
43 for mt=649 e= 1.291E+02
121. An angular distribution is negative  
*acer...monte carlo neutron and photon data (120): Neg.  $P(Ej\mu)$  (b)*
- message from ptleg2---negative probs found  
74 for mt=649 e= 1.303E+02
122. An angular distribution is negative  
*acer...monte carlo neutron and photon data (121): Neg.  $P(Ej\mu)$  (b)*
- message from ptleg2---negative probs found  
30 for mt=649 e= 1.316E+02
123. An angular distribution is negative  
*acer...monte carlo neutron and photon data (122): Neg.  $P(Ej\mu)$  (b)*
- message from ptleg2---negative probs found  
84 for mt=649 e= 1.329E+02
124. An angular distribution is negative  
*acer...monte carlo neutron and photon data (123): Neg.  $P(Ej\mu)$  (b)*
- message from ptleg2---negative probs found  
38 for mt=649 e= 1.342E+02
125. An angular distribution is negative  
*acer...monte carlo neutron and photon data (124): Neg.  $P(Ej\mu)$  (b)*
- message from ptleg2---negative probs found  
26 for mt=649 e= 1.354E+02
126. An angular distribution is negative  
*acer...monte carlo neutron and photon data (125): Neg.  $P(Ej\mu)$  (b)*
- message from ptleg2---negative probs found  
22 for mt=649 e= 1.367E+02
127. An angular distribution is negative  
*acer...monte carlo neutron and photon data (126): Neg.  $P(Ej\mu)$  (b)*
- message from ptleg2---negative probs found  
45 for mt=649 e= 1.380E+02
128. An angular distribution is negative  
*acer...monte carlo neutron and photon data (127): Neg.  $P(Ej\mu)$  (b)*

```

 ---message from ptleg2---negative probs found
 57 for mt=649 e= 1.393E+02
129. An angular distribution is negative
 acer...monte carlo neutron and photon data (128): Neg. $P(Ej\mu)$ (b)

 ---message from ptleg2---negative probs found
 72 for mt=649 e= 1.406E+02
130. An angular distribution is negative
 acer...monte carlo neutron and photon data (129): Neg. $P(Ej\mu)$ (b)

 ---message from ptleg2---negative probs found
 2 for mt= 5 e= 9.888E+01
131. An angular distribution is negative
 acer...monte carlo neutron and photon data (130): Neg. $P(Ej\mu)$ (b)

 ---message from ptleg2---negative probs found
 1 for mt= 5 e= 9.800E+01
132. An angular distribution is negative
 acer...monte carlo neutron and photon data (131): Neg. $P(Ej\mu)$ (b)

 ---message from ptleg2---negative probs found
 2 for mt= 5 e= 1.064E+02
133. An angular distribution is negative
 acer...monte carlo neutron and photon data (132): Neg. $P(Ej\mu)$ (b)

 ---message from ptleg2---negative probs found
 1 for mt= 5 e= 1.100E+02
134. An angular distribution is negative
 acer...monte carlo neutron and photon data (133): Neg. $P(Ej\mu)$ (b)

 ---message from ptleg2---negative probs found
 2 for mt= 5 e= 1.150E+02

```

- **acelst** Warnings:

1. The incident energy grid is not monotonic for this angular distribution  
0: *Bad Ang. Dist.*

```

 ACELST WARNING - Processing Ang.Dist.MT 2
 E-grid non-monotonic 4.500000000E+01 4.500000000E+01

```

- **xsectplotter** Errors:

1. Level energy in gamma data doesn't match level energy in cross section data  
(Error # 2): *Level mismatch (d)*

```

 WARNING: MT601 MF12 level energy 71770.01 differs from MF3 value 71769.0. Setting to MF12 value.

```

2. Level energy in gamma data doesn't match level energy in cross section data  
(Error # 3): *Level mismatch (d)*

- WARNING: MT602 MF12 level energy 125690.0 differs from MF3 value 125689.0. Setting to MF3 value.
3. Level energy in gamma data doesn't match level energy in cross section data  
(Error # 4): *Level mismatch (d)*
- WARNING: MT604 MF12 level energy 183000.0 differs from MF3 value 182999.0. Setting to MF3 value.
4. Level energy in gamma data doesn't match level energy in cross section data  
(Error # 5): *Level mismatch (d)*
- WARNING: MT605 MF12 level energy 289400.0 differs from MF3 value 289399.0. Setting to MF3 value.
5. Level energy in gamma data doesn't match level energy in cross section data  
(Error # 6): *Level mismatch (d)*
- WARNING: MT606 MF12 level energy 429670.0 differs from MF3 value 429669.0. Setting to MF3 value.
6. Level energy in gamma data doesn't match level energy in cross section data  
(Error # 7): *Level mismatch (d)*
- WARNING: MT607 MF12 level energy 448030.0 differs from MF3 value 448029.0. Setting to MF3 value.
7. Level energy in gamma data doesn't match level energy in cross section data  
(Error # 8): *Level mismatch (d)*
- WARNING: MT608 MF12 level energy 463400.0 differs from MF3 value 463399.0. Setting to MF3 value.
8. Level energy in gamma data doesn't match level energy in cross section data  
(Error # 9): *Level mismatch (d)*
- WARNING: MT609 MF12 level energy 591220.0 differs from MF3 value 591219.0. Setting to MF3 value.
9. Level energy in gamma data doesn't match level energy in cross section data  
(Error # 10): *Level mismatch (d)*
- WARNING: MT610 MF12 level energy 651000.0 differs from MF3 value 650999.0. Setting to MF3 value.
10. Level energy in gamma data doesn't match level energy in cross section data  
(Error # 11): *Level mismatch (d)*
- WARNING: MT611 MF12 level energy 661110.0 differs from MF3 value 661109.0. Setting to MF3 value.
11. Level energy in gamma data doesn't match level energy in cross section data  
(Error # 12): *Level mismatch (d)*
- WARNING: MT612 MF12 level energy 683100.0 differs from MF3 value 683099.0. Setting to MF3 value.
12. Level energy in gamma data doesn't match level energy in cross section data  
(Error # 13): *Level mismatch (d)*
- WARNING: MT613 MF12 level energy 735380.0 differs from MF3 value 735379.0. Setting to MF3 value.
13. Level energy in gamma data doesn't match level energy in cross section data  
(Error # 14): *Level mismatch (d)*
- WARNING: MT614 MF12 level energy 748000.0 differs from MF3 value 747999.0. Setting to MF3 value.

14. Level energy in gamma data doesn't match level energy in cross section data  
(Error # 15): *Level mismatch (d)*

WARNING: MT615 MF12 level energy 809700.0 differs from MF3 value 809699.0. Setting to MF3 value.

15. Level energy in gamma data doesn't match level energy in cross section data  
(Error # 16): *Level mismatch (d)*

WARNING: MT616 MF12 level energy 817000.0 differs from MF3 value 816999.0. Setting to MF3 value.

16. Level energy in gamma data doesn't match level energy in cross section data  
(Error # 17): *Level mismatch (d)*

WARNING: MT802 MF12 level energy 517700.1 differs from MF3 value 517700.0. Setting to MF12 value.

17. Level energy in gamma data doesn't match level energy in cross section data  
(Error # 18): *Level mismatch (d)*

WARNING: MT803 MF12 level energy 565910.1 differs from MF3 value 565910.0. Setting to MF12 value.